

# PATENT SPECIFICATION

711,187



Date of filing Complete Specification: March 27, 1953.

Application Date: March 29, 1952.

No. 8057/52.

Complete Specification Published: June 23, 1954.

Index at acceptance:—Class 28(1), B1.

## COMPLETE SPECIFICATION

### Improvements in or relating to Chewing Gum

We, EDGAR VICTOR JOHNSON, a British Subject, of "Beach-crest," Biggar-Bank, Barrow-in-Furness, in the County of Lancaster, and GEORGE TURNER WALLACE SKILLING, a British Subject, of 41, Holme Avenue, Dumfries, in the County of Dumfries, Scotland, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention is concerned with improvements in or relating to chewing gum.

It is an object of the present invention to provide a chewing gum which, when chewed, will satisfy, to a considerable extent, the personal urge to smoke tobacco, either by pipe or cigarette, when such smoking is impossible or undesirable for occupational or other reasons.

According to the invention there is provided a process for the production of a chewing gum containing tobacco which comprises the steps of drying tobacco, grinding the dried tobacco to a fine powder and thoroughly incorporating said powder in a gum base, together with a filling agent and pepsin (pepsinum). Preferably a sweetening agent, for example saccharine, is also mixed with the other ingredients. Whilst this sweetening agent may be incorporated in the mixture it may as an alternative be supplied as a hardened coating for the other compounded ingredients.

Suitable proportions of the various ingredients are 70 to 80% by weight of the gum base, 10 to 20% by weight of the filling agent, 2 to 6% by weight of the dried powdered tobacco, 1.5 to 2% by weight of pepsin and where the sweetening agent is incorporated in the mixture an amount of 0.5 to 1% by weight.

A particular composition which is given by way of illustration and which has been found very suitable for the production of two sticks of chewing gum, of a size usually sold commercially, consists of 46 grains of chicle gum, 2 grains of tobacco, 1 grain of pepsin, one half

grain of saccharine and 10 grains of kola powder.

The dried powder tobacco is first prepared by toasting the tobacco in an oven at 300° F. for approximately 5 minutes and then grinding it to a fine powder form in a mill. Chicle gum is heated in a steam cooker for 15 minutes and then transferred to a warm metal slab which is dusted with kola powder. The saccharin, pepsin and the dried powder tobacco are then dusted onto the surface of the warmed chicle and the whole mixture kneaded for approximately 15 minutes. The kneaded mixture is then rolled out onto a warm plate to a desired thickness and cut to sticks of suitable size.

The percentage of tobacco actually employed will vary according to the strength of tobacco and if the tobacco used is a pipe tobacco a preferred content of tobacco powder is about 3½%. In some cases however the percentage may be reduced to as low as 2%.

Whilst the invention has been particularly described in relation to sticks based on chicle gum and kola powder other gums and filling agents may be employed and the composition without the sweetening agent may be formed into lumps instead of sticks and these lumps coated, in known manner, with a hardened sweetened coating.

What we claim is:—

1. A process for the production of a chewing gum containing tobacco which comprises the steps of drying tobacco, grinding the dried tobacco to a fine powder and thoroughly incorporating said powder in a gum base together with pepsin and a filling agent.

2. A process in accordance with claim 1 wherein a sweetening agent is also mixed with the specified ingredients.

3. A process in accordance with claim 1 wherein the composition in the form of lumps is coated with a hardened sweetened coating.

4. A process in accordance with any of the preceding claims wherein the tobacco is dried by toasting at approximately 300° F. for a short period e.g. 5 minutes.

[Price 2/8]

5. A process in accordance with any of the preceding claims wherein the ingredients are mixed in the proportions of 70 to 80% by weight of the gum base, 10 to 20% by weight of the filling agent, 2 to 6% by weight of the dried powder tobacco and 1.5 to 2% by weight of pepsin.
6. A process in accordance with claims 2 and 5 wherein a sweetening agent is incorporated in addition in an amount of from 0.5 to 1% by weight.
7. A process for the production of a chewing gum containing tobacco substantially as described.
8. A chewing gum containing tobacco comprising a substantial proportion of a gum base, and relatively smaller proportions of a filling agent, pepsin and a dried powdered tobacco.
9. A chewing gum containing tobacco in accordance with claim 8 wherein the composition also contains a relatively small proportion of a sweetening agent.
10. A chewing gum containing tobacco in accordance with claim 8 wherein the said composition is coated with a hard sweetening agent.
11. A chewing gum containing tobacco in accordance with any of claims 8 to 10 wherein the gum base is chicle and the filling agent is kola powder.
12. A chewing gum containing tobacco in accordance with any of claims 8 to 11 wherein the proportion of gum base is from 70 to 80%, of the filling agent is 10 to 20%, of the dried powder tobacco is 2 to 6%, and of pepsin 1.5 to 2%.
13. A chewing gum containing tobacco in accordance with claims 9 and 12 wherein the proportion of sweetening agent present is from 0.5 to 1%.
14. A chewing gum containing tobacco substantially as described.

E. R. ROYSTON & CO.,  
Chartered Patent Agents,  
Tower Building, Water Street, Liverpool 3.

## PROVISIONAL SPECIFICATION

### Improvements in or relating to Chewing Gum

We, EDGAR VICTOR JOHNSON, a British Subject, of "Beach-crest," Biggar-Bank, Barrow-in-Furness, in the County of Lancaster, and GEORGE TURNER WALLACE SKILLING, a British Subject, of 41, Holme Avenue, Dumfries, in the County of Dumfries, Scotland, do hereby declare this invention to be described in the following statement:—

This invention is concerned with improvements in or relating to chewing gum.

It is object of the present invention to provide a chewing gum which will, to a considerable extent, satisfy the personal need for smoking tobacco either by pipe or cigarette when such smoking is impossible for occupational or other reasons.

According to the invention there is provided a chewing gum comprising 70 to 80% by weight of chicle gum or other suitable gum base, 10 to 20% by weight of kola powder or like filling agent, 2 to 6% by weight of dried powdered tobacco, 1.5 to 2% by weight of pepsin and 0.5 to 1% by weight of saccharine or other sweetening agent. It is an essential step in the compounding of the chewing gum that the tobacco before incorporation in the gum base is first dried and toasted and then ground to a fine powder.

By way of example reference is made to a particular composition in accordance with the invention which has been found very suitable consists of 46 grams of chicle gum, 2 grains of tobacco, 1 grain of pepsin, one half grain of saccharine and 10 grains of kola powder. From

this mixture two sticks of appropriate size can be prepared.

In preparing the chewing gum the chicle or gum base is heated suitably in a steam cooker for 15 minutes and then removed on to a warmed metal slab which is dusted with the kola powder and the saccharine, pepsin and the prepared tobacco powder then dusted on to the surface of the warmed chicle and the whole mixture kneaded for a period of about 15 minutes. The kneaded mixture is then rolled out on a warm plate to the desired thickness and cut in to sticks of suitable size. In preparing the dried tobacco powder the tobacco is toasted in an oven at 300° F. for approximately 5 minutes and then ground to fine powder form in a mill.

Whilst the invention has been described with particular reference to chicle gum and kola powder it will be understood that other gum bases and filler powders may be substituted. The preferred content of tobacco powder is about 3½% where a pipe tobacco is employed, but this percentage may be varied according to the strength of the tobacco. In some cases the percentage may be slightly reduced to as low as 2%.

In a modified form of the invention lumps or pieces of the composition may be provided with a sweetened coating as is known with other types of chewing gum, and in such case the sweetening element, e.g. saccharine, may be omitted from the composition to form the actual chewing composition.

---

E. R. ROYSTON & CO.,  
Chartered Patent Agents,  
Tower Building, Water Street, Liverpool, 3.

Leamington Spa: Printed for Her Majesty's Stationery Office, by the Courier Press.—1954.  
Published at The Patent Office, 25, Southampton Buildings, London, W.C.2, from which  
copies may be obtained.

**THIS PAGE BLANK (USPTO)**